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LOGINID:sssptal653rbm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPPFULL during January and February 2005
NEWS	17	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS	20	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	21	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	23	MAR 02	GBFULL: New full-text patent database on STN
NEWS	24	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	25	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:55:12 ON 10 MAR 2005

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 15:55:26 ON 10 MAR 2005

75 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> ("protamine sulfate" or polylysine or defensin or lysozyme or lactoperoxidase) and thiol (w) specific (w) reagent

1 FILE BIOSIS

1 FILE BIOTECHNO

19 FILES SEARCHED...

31 FILES SEARCHED...

1 FILE EMBASE

1 FILE MEDLINE

52 FILES SEARCHED...

1 FILE TOXCENTER

7 FILE USPATFULL

71 FILES SEARCHED...

6 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1 QUE ("PROTAMINE SULFATE" OR POLYLYSINE OR DEFENSIN OR LYSOZYME OR LACTOPER
OXIDASE) AND THIOL (W) SPECIFIC (W) REAGENT

=> file biosis medline embase toxcenter biotechno

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.72	4.93

FULL ESTIMATED COST

FILE 'BIOSIS' ENTERED AT 15:59:58 ON 10 MAR 2005

Copyright (c) 2005 The Thomson Corporation

FILE 'MEDLINE' ENTERED AT 15:59:58 ON 10 MAR 2005

FILE 'EMBASE' ENTERED AT 15:59:58 ON 10 MAR 2005

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FILE 'TOXCENTER' ENTERED AT 15:59:58 ON 10 MAR 2005

COPYRIGHT (C) 2005 ACS

FILE 'BIOTECHNO' ENTERED AT 15:59:58 ON 10 MAR 2005

COPYRIGHT (C) 2005 Elsevier Science B.V., Amsterdam. All rights reserved.

=> ("protamine sulfate" or polylysine or defensin or lysozyme or lactoperoxidase)
and thiol (w) specific (w) reagent
L2 5 ("PROTAMINE SULFATE" OR POLYLYSINE OR DEFENSIN OR LYSOZYME OR
LACTOPEROXIDASE) AND THIOL (W) SPECIFIC (W) REAGENT

=> dup reomve
ENTER REMOVE, IDENTIFY, ONLY, OR (?):L2
'L7' IS NOT VALID HERE
Enter "REMOVE" to identify and remove duplicate answers.
Enter "IDENTIFY" to identify duplicate answers in the answer set.
Enter "ONLY" to identify and create an answer set containing only
duplicate records.
ENTER REMOVE, IDENTIFY, ONLY, OR (?):2
'2' IS NOT VALID HERE
Enter "REMOVE" to identify and remove duplicate answers.
Enter "IDENTIFY" to identify duplicate answers in the answer set.
Enter "ONLY" to identify and create an answer set containing only
duplicate records.
ENTER REMOVE, IDENTIFY, ONLY, OR (?):1
'1' IS NOT VALID HERE
Enter "REMOVE" to identify and remove duplicate answers.
Enter "IDENTIFY" to identify duplicate answers in the answer set.
Enter "ONLY" to identify and create an answer set containing only
duplicate records.
ENTER REMOVE, IDENTIFY, ONLY, OR (?):only
ENTER L# LIST OR (END):L2
'REOMVE' IS VALID ONLY WITH THE REMOVE OPTION
File names can only be entered when using the REMOVE option of the
DUPLICATE command.

=> ("protamine sulfate" or polylysine or defensin or lysozyme or lactoperoxidase)
and thiol (w) specific (w) reagent
L3 5 ("PROTAMINE SULFATE" OR POLYLYSINE OR DEFENSIN OR LYSOZYME OR
LACTOPEROXIDASE) AND THIOL (W) SPECIFIC (W) REAGENT

=> d ti 1-5

L3 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI UNPAIRED CYSTEINE-54 INTERFERES WITH THE ABILITY OF AN ENGINEERED
DISULFIDE TO STABILIZE T-4 **LYSOZYME**.

L3 ANSWER 2 OF 5 MEDLINE on STN
TI Unpaired cysteine-54 interferes with the ability of an engineered
disulfide to stabilize T4 **lysozyme**.

L3 ANSWER 3 OF 5 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
TI Unpaired cysteine-54 interferes with the ability of an engineered
disulfide to stabilize T4 **lysozyme**.

L3 ANSWER 4 OF 5 TOXCENTER COPYRIGHT 2005 ACS on STN
TI Unpaired cysteine-54 interferes with the ability of an engineered
disulfide to stabilize T4 **lysozyme**

L3 ANSWER 5 OF 5 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
TI Unpaired cysteine-54 interferes with the ability of an engineered
disulfide to stabilize T4 **lysozyme**

=> d ab bib 1

L3 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 AB We have introduced an intramolecular disulfide bond into T4
lysozyme and have shown this molecule to be significantly more
 stable than the wild-type molecule to irreversible thermal inactivation
 [Perry, L. J., and Wetzel, R. (1984) Science (Washington, D.C.) 226,
 555-557]. Wild-type T4 **lysozyme** contains two free cysteines, at
 positions 54 and 97, and no disulfide bonds. By directed mutagenesis of
 the cloned T4 **lysozyme** gene, we replaced Ile-3 with Cys.
 Oxidation in vitro generated an intramolecular disulfide bond; proteolytic
 mapping showed this bond to connect Cys-3 to Cys-97. While this molecule
 exhibited substantially more stability against thermal inactivation than
 wild type, its stability was further enhanced by additional modification
 with **thiol-specific reagents**. This and
 other evidence suggest that at basic pH and elevated temperatures Cys-54
 is involved in intermolecular thiol/disulfide interchange with the
 engineered disulfide, leading to inactive oligomers. Mutagenic
 replacement of Cys-54 with Thr or Val in the disulfide-cross-linked
 variant generated **lysozymes** exhibiting greatly enhanced
 stability toward irreversible thermal inactivation.

AN 1986:210209 BIOSIS
 DN PREV198681101509; BA81:101509
 TI UNPAIRED CYSTEINE-54 INTERFERES WITH THE ABILITY OF AN ENGINEERED
 DISULFIDE TO STABILIZE T-4 **LYSOZYME**.
 AU PERRY L J [Reprint author]; WETZEL R
 CS DEPARTMENT OF BIOCATALYSIS, GENENTECH, INC, SOUTH SAN FRANCISCO,
 CALIFORNIA 94080, USA
 SO Biochemistry, (1986) Vol. 25, No. 3, pp. 733-739.
 CODEN: BICHAW. ISSN: 0006-2960.
 DT Article
 FS BA
 LA ENGLISH
 ED Entered STN: 28 May 1986
 Last Updated on STN: 28 May 1986

=>

=> FIL STNGUIDE		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	9.20	14.13

FILE 'STNGUIDE' ENTERED AT 16:03:17 ON 10 MAR 2005
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> file uspatful		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.12	14.25

FILE 'USPATFULL' ENTERED AT 16:04:42 ON 10 MAR 2005
 CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 10 Mar 2005 (20050310/PD)
 FILE LAST UPDATED: 10 Mar 2005 (20050310/ED)
 HIGHEST GRANTED PATENT NUMBER: US6865747
 HIGHEST APPLICATION PUBLICATION NUMBER: US2005055750
 CA INDEXING IS CURRENT THROUGH 10 Mar 2005 (20050310/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 10 Mar 2005 (20050310/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

```
>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or  <<<
>>> applications.  USPAT2 contains full text of the latest US  <<<
>>> publications, starting in 2001, for the inventions covered in  <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent  <<<
>>> publications.  The publication number, patent kind code, and  <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL  <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.  <<<
```

```
>>> USPATFULL and USPAT2 can be accessed and searched together  <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to  <<<
>>> enter this cluster.  <<<
>>>  <<<
>>> Use USPATALL when searching terms such as patent assignees,  <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.  <<<
```

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> ("protamine sulfate" or polylysine or defensin or lysozyme or lactoperoxidase)
and thiol (w) specific (w) reagent

```
5415 "PROTAMINE"
656 "PROTAMINES"
5792 "PROTAMINE"
      ("PROTAMINE" OR "PROTAMINES")
278875 "SULFATE"
55373 "SULFATES"
292866 "SULFATE"
      ("SULFATE" OR "SULFATES")
2141 "PROTAMINE SULFATE"
      ("PROTAMINE"(W)"SULFATE")
9554 POLYLYSINE
426 POLYLYSINES
9765 POLYLYSINE
      (POLYLYSINE OR POLYLYSINES)
621 DEFENSIN
811 DEFENSINS
1135 DEFENSIN
      (DEFENSIN OR DEFENSINS)
13101 LYSOZYME
751 LYSOZYMES
13372 LYSOZYME
      (LYSOZYME OR LYSOZYMES)
1985 LACTOPEROXIDASE
50 LACTOPEROXIDASES
2014 LACTOPEROXIDASE
      (LACTOPEROXIDASE OR LACTOPEROXIDASES)
43092 THIOL
14420 THIOLS
49781 THIOL
      (THIOL OR THIOLS)
1790244 SPECIFIC
21079 SPECIFICS
1795388 SPECIFIC
      (SPECIFIC OR SPECIFICS)
```

155904 REAGENT
150362 REAGENTS
215686 REAGENT

(REAGENT OR REAGENTS)

45 THIOL (W) SPECIFIC (W) REAGENT

L4 7 ("PROTAMINE SULFATE" OR POLYLYSINE OR DEFENSIN OR LYSOZYME OR
LACTOPEROXIDASE) AND THIOL (W) SPECIFIC (W) REAGENT

=> d ti 1-7

L4 ANSWER 1 OF 7 USPATFULL on STN

TI Reagents and immunoassay for the detection and quantitative
determination of mycothiol and precursors thereof

L4 ANSWER 2 OF 7 USPATFULL on STN

TI Azobenzene derivatives as labeling agents and intermediates thereof

L4 ANSWER 3 OF 7 USPATFULL on STN

TI Methods of determining SAM-dependent methyltransferase activity using a
mutant SAH hydrolase

L4 ANSWER 4 OF 7 USPATFULL on STN

TI Azobenzene derivatives as labeling agents and intermediates thereof

L4 ANSWER 5 OF 7 USPATFULL on STN

TI Immune response modulator alpha-2 macroglobulin complex

L4 ANSWER 6 OF 7 USPATFULL on STN

TI Immune response modulator alpha-2 macroglobulin complex

L4 ANSWER 7 OF 7 USPATFULL on STN

TI Methods and compositions for assaying analytes

=> ("protamine sulfate" or polylysine or defensin or lysozyme or lactoperoxidase)
and thiol (w) specific (w) reagents

5415 "PROTAMINE"

656 "PROTAMINES"

5792 "PROTAMINE"

("PROTAMINE" OR "PROTAMINES")

278875 "SULFATE"

55373 "SULFATES"

292866 "SULFATE"

("SULFATE" OR "SULFATES")

2141 "PROTAMINE SULFATE"

("PROTAMINE" (W) "SULFATE")

9554 POLYLYSINE

426 POLYLYSINES

9765 POLYLYSINE

(POLYLYSINE OR POLYLYSINES)

621 DEFENSIN

811 DEFENSINS

1135 DEFENSIN

(DEFENSIN OR DEFENSINS)

13101 LYSOZYME

751 LYSOZYMES

13372 LYSOZYME

(LYSOZYME OR LYSOZYMES)

1985 LACTOPEROXIDASE

50 LACTOPEROXIDASES

2014 LACTOPEROXIDASE

(LACTOPEROXIDASE OR LACTOPEROXIDASES)

43092 THIOL

14420 THIOLS
 49781 THIOL
 (THIOL OR THIOLS)
 1790244 SPECIFIC
 21079 SPECIFICS
 1795388 SPECIFIC
 (SPECIFIC OR SPECIFICS)
 150362 REAGENTS
 20 THIOL (W) SPECIFIC (W) REAGENTS
 L5 4 ("PROTAMINE SULFATE" OR POLYLYSINE OR DEFENSIN OR LYSOZYME OR
 LACTOPEROXIDASE) AND THIOL (W) SPECIFIC (W) REAGENTS

=> d ti 1-4

L5 ANSWER 1 OF 4 USPATFULL on STN
 TI Azobenzene derivatives as labeling agents and intermediates thereof

 L5 ANSWER 2 OF 4 USPATFULL on STN
 TI Azobenzene derivatives as labeling agents and intermediates thereof

 L5 ANSWER 3 OF 4 USPATFULL on STN
 TI Immune response modulator alpha-2 macroglobulin complex

 L5 ANSWER 4 OF 4 USPATFULL on STN
 TI Immune response modulator alpha-2 macroglobulin complex

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.20	18.45

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
 AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
 BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
 CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 16:06:19 ON 10 MAR 2005

75 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
 search error messages that display as 0* with SET DETAIL OFF.

=> "protamine sulfate"

78 FILE ADISCTI
 5 FILE ADISINSIGHT
 26 FILE ADISNEWS
 21 FILE AGRICOLA
 9 FILE ANABSTR
 8 FILE AQUASCI
 15 FILE BIOBUSINESS
 60 FILE BIOENG
 1382 FILE BIOSIS
 209 FILE BIOTECHABS
 209 FILE BIOTECHDS
 300 FILE BIOTECHNO
 35 FILE CABA
 168 FILE CANCERLIT
 2675 FILE CAPLUS
 4 FILE CEABA-VTB
 3 FILE CIN
 20 FILE CONFSCI
 3 FILE CROPU

```

161 FILE DDFB
481 FILE DDFU
45 FILE DISSABS
161 FILE DRUGB
97 FILE DRUGMONOG2
599 FILE DRUGU
6 FILE EMBAL
1686 FILE EMBASE
131 FILE ESBIODBASE
12 FILE FEDRIP
3 FILE FROSTI
3 FILE FSTA
1 FILE HEALSAFE
90 FILE IFIPAT
29 FILE IMSPRODUCT
61 FILE JICST-EPLUS
1 FILE KOSMET
154 FILE LIFESCI
49 FILES SEARCHED...
967 FILE MEDLINE
5 FILE NIOSHTIC
18 FILE NTIS
420 FILE PASCAL
1 FILE PHAR
1 FILE PHARMAML
4 FILE PHIN
29 FILE PROMT
7 FILE RDISCLOSURE
592 FILE SCISEARCH
812 FILE TOXCENTER
2141 FILE USPATFULL
185 FILE USPAT2
1 FILE VETB
11 FILE VETU
10 FILE WATER
56 FILE WPIDS
3 FILE WPIFV
56 FILE WPINDEX

```

56 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L6 QUE "PROTAMINE SULFATE"

=> "protamine sulfate" and ?maleimides

```

0* FILE ADISCTI
0* FILE ADISINSIGHT
0* FILE ADISNEWS
0* FILE AGRICOLA
0* FILE AQUASCI
0* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
1 FILE BIOSIS
0* FILE BIOTECHABS
0* FILE BIOTECHDS
1 FILE BIOTECHNO
1 FILE CAPLUS
0* FILE CEABA-VTB
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB
0* FILE CROPU
0* FILE DDFB
0* FILE DDFU

```


0* FILE DGENE
 0* FILE DRUGB
 0* FILE DRUGMONOG2
 0* FILE DRUGU
 0* FILE EMBAL
 1 FILE EMBASE
 0* FILE ESBIODBASE
 0* FILE FEDRIP
 0* FILE FOMAD
 0* FILE FOREGE
 0* FILE HEALSAFE
 0* FILE IMSDRUGNEWS
 0* FILE IMSPRODUCT
 0* FILE IMSRESEARCH

45 FILES SEARCHED...

0* FILE JICST-EPLUS
 0* FILE LIFESCI
 2 FILE MEDLINE
 0* FILE NIOSHTIC
 0* FILE NUTRACEUT
 0* FILE OCEAN
 0* FILE PCTGEN
 0* FILE PHARMAML
 0* FILE PROMT
 0* FILE SYNTHLINE
 101 FILE USPATFULL
 4 FILE USPAT2
 0* FILE VETB
 0* FILE VETU

7 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L7 QUE "PROTAMINE SULFATE" AND ?MALEIMIDES

=> d rank

F1	101	USPATFULL
F2	4	USPAT2
F3	2	MEDLINE
F4	1	BIOSIS
F5	1	BIOTECHNO
F6	1	CAPLUS
F7	1	EMBASE

=> file medline biosis
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.95	21.40

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 16:09:09 ON 10 MAR 2005

FILE 'BIOSIS' ENTERED AT 16:09:09 ON 10 MAR 2005

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=> "protamine sulfate" and ?maleimides

L8 3 "PROTAMINE SULFATE" AND ?MALEIMIDES

=> d ti 1-3

L8 ANSWER 1 OF 3 MEDLINE on STN

TI Inactivation of unbound rat liver glucocorticoid receptor by N-alkylmaleimides at sub-zero temperatures.

L8 ANSWER 2 OF 3 MEDLINE on STN
 TI Progesterone receptor in the rat ovary: further characterization and localization in the granulosa cell.

L8 ANSWER 3 OF 3 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI INACTIVATION OF UNBOUND RAT LIVER GLUCOCORTICOID RECEPTOR BY N
 ALKYLMALEIMIDES AT SUB-ZERO TEMPERATURES.

=> file usptoful
 'USPTOFUL' IS NOT A VALID FILE NAME
 SESSION CONTINUES IN FILE 'MEDLINE, BIOSIS'
 Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file uspatful

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.23	22.63

FILE 'USPATFULL' ENTERED AT 16:10:07 ON 10 MAR 2005
 CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 10 Mar 2005 (20050310/PD)
 FILE LAST UPDATED: 10 Mar 2005 (20050310/ED)
 HIGHEST GRANTED PATENT NUMBER: US6865747
 HIGHEST APPLICATION PUBLICATION NUMBER: US2005055750
 CA INDEXING IS CURRENT THROUGH 10 Mar 2005 (20050310/UPCA)
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 10 Mar 2005 (20050310/PD)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the original, i.e., the earliest published granted patents or applications. USPAT2 contains full text of the latest US publications, starting in 2001, for the inventions covered in USPATFULL. A USPATFULL record contains not only the original published document but also a list of any subsequent publications. The publication number, patent kind code, and publication date for all the US publications for an invention are displayed in the PI (Patent Information) field of USPATFULL records and may be searched in standard search fields, e.g., /PN, /PK, etc.

>>> USPATFULL and USPAT2 can be accessed and searched together through the new cluster USPATALL. Type FILE USPATALL to enter this cluster.

>>> Use USPATALL when searching terms such as patent assignees, classifications, or claims, that may potentially change from the earliest to the latest publication.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> "protamine sulfate" and ?maleimides
 5415 "PROTAMINE"
 656 "PROTAMINES"
 5792 "PROTAMINE"
 ("PROTAMINE" OR "PROTAMINES")
 278875 "SULFATE"

```

55373 "SULFATES"
292866 "SULFATE"
      ("SULFATE" OR "SULFATES")
2141 "PROTAMINE SULFATE"
      ("PROTAMINE" (W) "SULFATE")
8088 ?MALEIMIDES
L9      101 "PROTAMINE SULFATE" AND ?MALEIMIDES

```

```

=> "protamine sulfate" (p) ?maleimides
5415 "PROTAMINE"
656 "PROTAMINES"
5792 "PROTAMINE"
      ("PROTAMINE" OR "PROTAMINES")
278875 "SULFATE"
55373 "SULFATES"
292866 "SULFATE"
      ("SULFATE" OR "SULFATES")
2141 "PROTAMINE SULFATE"
      ("PROTAMINE" (W) "SULFATE")
8088 ?MALEIMIDES
L10      0 "PROTAMINE SULFATE" (P) ?MALEIMIDES

```

```

=> "protamine sulfate" adj(30) ?maleimides
MISSING OPERATOR 'ADJ(30)'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

```

```

=> "protamine sulfate" adj(30)?maleimides
MISSING OPERATOR 'ADJ(30)'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

```

```

=> "protamine sulfate" A(30)?maleimides
MISSING OPERATOR 'SULFATE' A(30)'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

```

```

=> "protamine sulfate" A20 ?maleimides
5415 "PROTAMINE"
656 "PROTAMINES"
5792 "PROTAMINE"
      ("PROTAMINE" OR "PROTAMINES")
278875 "SULFATE"
55373 "SULFATES"
292866 "SULFATE"
      ("SULFATE" OR "SULFATES")
4409 A20
8088 ?MALEIMIDES
L11      0 "PROTAMINE SULFATE" A20 ?MALEIMIDES
          ("PROTAMINE" (W) "SULFATE" (W) A20 (W) ?MALEIMIDES)

```

```

=> "protamine sulfate" and "N-substituted maleimides"
5415 "PROTAMINE"
656 "PROTAMINES"
5792 "PROTAMINE"
      ("PROTAMINE" OR "PROTAMINES")
278875 "SULFATE"
55373 "SULFATES"
292866 "SULFATE"
      ("SULFATE" OR "SULFATES")
2141 "PROTAMINE SULFATE"
      ("PROTAMINE" (W) "SULFATE")
1328993 "N"

```

511158 "SUBSTITUTED"
 4 "SUBSTITUTEDS"
 511158 "SUBSTITUTED"
 ("SUBSTITUTED" OR "SUBSTITUTEDS")
 6505 "MALEIMIDES"
 406 "N-SUBSTITUTED MALEIMIDES"
 ("N"(W)"SUBSTITUTED"(W)"MALEIMIDES")
 L12 3 "PROTAMINE SULFATE" AND "N-SUBSTITUTED MALEIMIDES"

=> d ti 1-3

L12 ANSWER 1 OF 3 USPATFULL on STN
 TI Angiogenesis-modulating compositions and uses
 L12 ANSWER 2 OF 3 USPATFULL on STN
 TI Methods of modulating lipid metabolism and storage
 L12 ANSWER 3 OF 3 USPATFULL on STN
 TI Angiogenesis-modulating compositions and uses

=> "protamine sulfate" and ?maleimides and antimicrobial
 5415 "PROTAMINE"
 656 "PROTAMINES"
 5792 "PROTAMINE"
 ("PROTAMINE" OR "PROTAMINES")
 278875 "SULFATE"
 55373 "SULFATES"
 292866 "SULFATE"
 ("SULFATE" OR "SULFATES")
 2141 "PROTAMINE SULFATE"
 ("PROTAMINE"(W)"SULFATE")
 8088 ?MALEIMIDES
 32478 ANTIMICROBIAL
 6981 ANTIMICROBIALS
 35880 ANTIMICROBIAL
 (ANTIMICROBIAL OR ANTIMICROBIALS)
 L13 37 "PROTAMINE SULFATE" AND ?MALEIMIDES AND ANTIMICROBIAL

=> d ti 1-37

L13 ANSWER 1 OF 37 USPATFULL on STN
 TI Differentially expressed genes involved in cancer, the polypeptides encoded thereby, and methods of using the same
 L13 ANSWER 2 OF 37 USPATFULL on STN
 TI Chemo-enzymatic synthesis of sialylated oligosaccharides
 L13 ANSWER 3 OF 37 USPATFULL on STN
 TI Novel polypeptides, their nucleic acids, and methods for their use in angiogenesis and vascularization
 L13 ANSWER 4 OF 37 USPATFULL on STN
 TI Interleukin-2:remodeling and glycoconjugation of interleukin-2
 L13 ANSWER 5 OF 37 USPATFULL on STN
 TI Polypeptides homologous to VEGF and BMPI
 L13 ANSWER 6 OF 37 USPATFULL on STN
 TI Animal model of polyglutamine toxicity, methods of use, and modulators of polyglutamine toxicity
 L13 ANSWER 7 OF 37 USPATFULL on STN

TI Polypeptides homologous to VEGF and BMP1

L13 ANSWER 8 OF 37 USPTAFULL on STN
TI Glycoconjugation methods and proteins/peptides produced by the methods

L13 ANSWER 9 OF 37 USPTAFULL on STN
TI Remodeling and glycoconjugation of peptides

L13 ANSWER 10 OF 37 USPTAFULL on STN
TI Novel inhibitor of hepatocyte growth factor activator for use in modulation of angiogenesis and cardiovascularization

L13 ANSWER 11 OF 37 USPTAFULL on STN
TI Glycopegylation methods and proteins/peptides produced by the methods

L13 ANSWER 12 OF 37 USPTAFULL on STN
TI Follicle stimulating hormone: remodeling and glycoconjugation of FSH

L13 ANSWER 13 OF 37 USPTAFULL on STN
TI Interferon beta: remodeling and glycoconjugation of interferon beta

L13 ANSWER 14 OF 37 USPTAFULL on STN
TI Interferon alpha: remodeling and glycoconjugation of interferon alpha

L13 ANSWER 15 OF 37 USPTAFULL on STN
TI Granulocyte colony stimulating factor: remodeling and glycoconjugation of G-CSF

L13 ANSWER 16 OF 37 USPTAFULL on STN
TI Protein remodeling methods and proteins/peptides produced by the methods

L13 ANSWER 17 OF 37 USPTAFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 18 OF 37 USPTAFULL on STN
TI Alpha galactosidase a: remodeling and glycoconjugation of alpha galactosidase A

L13 ANSWER 19 OF 37 USPTAFULL on STN
TI Protamine-adenoviral vector complexes and methods of use

L13 ANSWER 20 OF 37 USPTAFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 21 OF 37 USPTAFULL on STN
TI Animal model of polyglutamine toxicity, methods of use, and modulators of polyglutamine toxicity

L13 ANSWER 22 OF 37 USPTAFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 23 OF 37 USPTAFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 24 OF 37 USPTAFULL on STN
TI Apoptosis modulator BCL-B and methods for making and using same

L13 ANSWER 25 OF 37 USPTAFULL on STN
TI Uses of VEGF-E

L13 ANSWER 26 OF 37 USPATFULL on STN
TI Senescent cell-derived inhibitors of DNA synthesis

L13 ANSWER 27 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 28 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 29 OF 37 USPATFULL on STN
TI Polypeptides homologous to VEGF and BMP1

L13 ANSWER 30 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 31 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 32 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 33 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 34 OF 37 USPATFULL on STN
TI Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

L13 ANSWER 35 OF 37 USPATFULL on STN
TI Nucleic acids encoding vascular endothelial cell growth factor-E (VEGF-E)

L13 ANSWER 36 OF 37 USPATFULL on STN
TI Novel inhibitor of hepatocyte growth factor activator for use in modulation of angiogenesis and cardiovascularization

L13 ANSWER 37 OF 37 USPATFULL on STN
TI Senescent cell-derived inhibitors of DNA synthesis

that acts at the level of prevention of biofilm formation is needed. Also needed is a composition that allows for low quantities of the composition to be used effectively, thus reducing toxicity or other side effects to the user or patient without sacrificing effectiveness against biofilm formation. There is also a need for compositions that are environmentally friendly, medically acceptable, effective at lower concentrations and relatively economical to manufacture on a commercial scale for reducing biofilm formation in biomedical devices.

[0011] A few recent studies have demonstrated the antimicrobial activity of thiol-specific reagents, such as, N-substituted maleimides and thiosulfonates (Cechinel Filho, V., et al., *Farmaco*. 49: 675-677, 1994; Yoshida, H., et al., *Biosci. Biotechnol. Biochem.* 63: 591-594, 1999 and Zentz, F., et al., *Farmaco*. 57: 21-426, 2002). Wu, et al., in US Patent No. 5,466,707, disclosed the use of thione maleimides and compositions containing them as antimicrobial and marine antifouling agents. Thiol-specific reagents react with thiol groups of various enzymes, such as, thioredoxin reductase, coenzyme A disulfide reductase and glucosamine-1-phosphate acetyltransferase in bacteria (Ankri, S. and D. Mirelman, *Microbes Infect.* 1: 125-129, 1999; Delcardayre and Davies, International Publication No. WO 97/23628 and Pompeo, F. et al., *J. Bacteriol.* 180: 4799-4803, 1998). US Patent Application No. 20030166843 from Benson, T.E. describes the use of x-ray crystal structure for solving the structure of *S. aureus* thioredoxin reductase and other molecular complexes, and designing inhibitors of *Staph. aureus* thioredoxin reductase. DeBouck, et al., in US Patent No. 6,043,071, described the methods for utilizing glucosamine-1-phosphate acetyltransferase and N-acetylglucosamine-1-phosphate uridyltransferase (GlmU) polypeptides to screen for antibacterial compounds. Donna et al. observed 95% decrease in thioredoxin reductase activity when it was crosslinked with thiol-specific reagent N,N'-(1,2-phenylene) dimaleimide (*Prot. Sci.* 7:369-375, 1998). The structural differences between the bacterial and mammalian thioredoxin reductases and a surprising diversity in their chemical mechanism of thioredoxin reduction suggest that it could be used as a target